



### 300 and 900 Series Coalescent Oil Separators: Natural Refrigerants, Tons and kW

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °F	Tons @ 100°F Condensing 10°F Superheat 0°F Subcooling							
R-290 Propane C <sub>3</sub> H <sub>8</sub>	+40	2.09	4.18	2.81	5.23	7.52	10.45	18.81	28.60
	+30	1.74	3.48	2.34	4.35	6.25	8.70	15.66	23.80
	+20	1.44	2.87	1.93	3.59	5.17	7.19	12.94	19.67
	+10	1.19	2.38	1.60	2.97	4.27	5.94	10.69	16.26
	0	0.96	1.92	1.29	2.40	3.45	4.80	8.64	13.14
	-10	0.77	1.55	1.04	1.94	2.78	3.87	6.97	10.60
	-20	0.62	1.24	0.83	1.55	2.23	3.09	5.57	8.47
	-30	0.49	0.98	0.66	1.22	1.76	2.45	4.40	6.70
	-40	0.38	0.76	0.51	0.96	1.38	1.91	3.44	5.23
R-600a Butane C <sub>4</sub> H <sub>10</sub>	+40	0.85	1.70	1.14	2.12	3.05	4.24	7.63	11.60
	+30	0.69	1.37	0.92	1.72	2.47	3.44	6.18	9.40
	+20	0.55	1.10	0.74	1.38	1.98	2.76	4.97	7.55
	+10	0.44	0.88	0.59	1.10	1.58	2.20	3.95	6.01
	0	0.35	0.69	0.46	0.86	1.24	1.73	3.11	4.73
	-10	0.27	0.54	0.36	0.67	0.97	1.35	2.42	3.69
	-20	0.21	0.41	0.28	0.52	0.75	1.04	1.87	2.84
	-30	0.16	0.31	0.21	0.39	0.57	0.79	1.42	2.16
	-40	0.12	0.24	0.16	0.30	0.42	0.59	1.06	1.62

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Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °F	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R-290 Propane C <sub>3</sub> H <sub>8</sub>	4.4	7.35	14.70	9.88	18.38	26.43	36.76	66.16	100.60
	-1.1	6.12	12.23	8.22	15.30	22.00	30.60	55.06	83.72
	-6.7	5.05	10.11	6.79	12.64	18.18	25.28	45.50	69.19
	-12.2	4.18	8.35	5.61	10.45	15.02	20.89	37.60	57.17
	-17.8	3.38	6.75	4.54	8.44	12.14	16.89	30.39	46.21
	-23.3	2.72	5.45	3.66	6.81	9.79	13.62	24.51	37.27
	-28.9	2.18	4.35	2.92	5.44	7.83	10.88	19.59	29.78
	-34.4	1.72	3.44	2.31	4.30	6.19	8.61	15.49	23.55
	-40	1.34	2.69	1.81	3.36	4.84	6.73	12.10	18.40
R-600a Butane C <sub>4</sub> H <sub>10</sub>	4.4	2.98	5.96	4.01	7.46	10.72	14.91	26.84	40.80
	-1.1	2.42	4.83	3.25	6.04	8.69	12.08	21.75	33.07
	-6.7	1.94	3.88	2.61	4.85	6.98	9.71	17.47	26.56
	-12.2	1.54	3.09	2.08	3.86	5.55	7.72	13.90	21.13
	-17.8	1.22	2.43	1.63	3.04	4.37	6.08	10.95	16.64
	-23.3	0.95	1.89	1.27	2.37	3.41	4.74	8.53	12.97
	-28.9	0.73	1.46	0.98	1.82	2.62	3.65	6.56	9.98
	-34.4	0.55	1.11	0.74	1.38	1.99	2.77	4.98	7.58
	-40	0.41	0.83	0.56	1.04	1.49	2.08	3.74	5.68

SELECT OIL SEPARATOR WITH CONNECTION SIZE NO LESS THAN DISCHARGE LINE SIZE.

#### 300 and 900 Series for Natural Refrigerants, Tons and kW Notes:

1. Tons = Capacity in evaporator (12,000 BTUH/Hr/Ton), based on Condensing Temperature stated in the chart, 10°F Superheat, 0°F Subcooling.
2. kW = Capacity based on Condensing Temperature stated in the chart, 5.6°C Superheat, 0°C Subcooling.
3. For applications other than reciprocating compressors, (scroll, screw type, 2-stage) please contact Temprite engineering at [temprite@temprite.com](mailto:temprite@temprite.com).